

DETAILED ACTION

1. This Office action is responsive to the following communication: Amendment filed on 11 April 2008.
2. Claims 1-26 are pending and present for examination.

Continued Examination Under 37 CFR 1.114

3. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 11 April 2008 has been entered.

Information Disclosure Statement

4. The information disclosure statement (IDS) submitted on 11 April 2008 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Response to Amendment

5. Claims 1, 4, 7-10, 13, 15-16, 19, and 24-25 have been amended.
6. No claims have been added.
7. No claims have been cancelled.

Claim Rejections - 35 USC § 102

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

9. **Claims 1-2, 5-6, 8-18, 20, and 22-26** are rejected under 35 U.S.C. 102(b) as being anticipated by Boss et al (U.S. Patent No. 6,329,984, hereinafter referred to as BOSS), filed on 26 November 1997 and issued on 11 December 2001.

10. **As per independent claims 1, 14, and 26**, BOSS teaches:

A bandwidth-adaptive method for synchronizing display data between a source node and a plurality of consumer nodes, the method comprising the steps of:

- (a) identifying, by a source node, a change in local display data {See BOSS, C8:L6-9, wherein this reads over "when there is a change in the number or positions of windows on the host system, detection of covered portion of shared tasks feature of the present invention is initiated"};
- (b) creating, by the source node, at least one data packet representing the change in local display data {See BOSS, C8:L21-29, wherein this reads over "a communication packet containing the window list created in blocks 354 through 359 is sent to the client system"};
- (c) receiving, by a communications service from the source node {See BOSS, Figure 3, Element 108}, metadata information identifying at least one data packet representing the current state of local display data following the change in local display data {See BOSS, C8:L4-29, wherein this reads over "the window in the list is marked as being shared" and "a communication packet containing the window list created in blocks 354 through 359 is sent to the client system"};
- (d) receiving, by the communications service from the source node {See BOSS, Figure 3, Element 108}, at least one of the identified data packets {See BOSS, C8:L30-43, wherein this reads over "[o]nce the communication packet is transmitted to and received by the client system, a censor routine is initialized"};
- (e) selecting, by the communications service {See BOSS, Figure 3, Element 108}, at least one of the received data packets responsive to the received metadata information {See BOSS, C8:L44-46, wherein this reads over "[i]f the window in the communication packet examined belongs to a shared task, then in block 370 the window region is added to the shared region"};
- (f) transmitting, by the communications service to a consumer node {See BOSS, Figure 3, Element 200}, the metadata information {See BOSS, C8:L4-29, wherein this reads over "the window in the list is marked as being shared" and "a communication packet containing the window list created in blocks 354 through 359 is sent to the client system"}; and
- (g) transmitting, by the communications service to the consumer node {See BOSS, Figure 3, Element 200}, the selected at least one data packet {See BOSS, C8:L44-46, wherein this reads over "[i]f the window in the communication packet examined belongs to a shared task, then in block 370 the window region is added to the shared region"}.

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11. As per dependent claims 2, 15, 17, BOSS teaches:

The method of claim 1 further comprising receiving, prior to selecting the at least one of the received data packets responsive to the received metadata information, a request from a consumer node for the current state of the source node local display data {See BOSS, C7:L16-20, wherein this reads over "sensor application 107 monitors Windows system 105 to determine if there is any new task created"}.

12. As per dependent claim 5, BOSS teaches:

The method of claim 1 wherein selecting the at least one of the received data packets responsive to the received metadata information comprises selecting a plurality of the received data packets responsive to the received metadata information {See BOSS, C8:L44-46, wherein this reads over "[i]f the window in the communication packet examined belongs to a shared task, then in block 370 the window region is added to the shared region"}.

13. As per dependent claim 6, BOSS teaches:

The method of claim 5 wherein transmitting to the consumer node the selected at least one data packet comprises transmitting to a consumer node each of the selected plurality of data packets {See BOSS, C8:L4-29, wherein this reads over "the window in the list is marked as being shared" and "a communication packet containing the window list created in blocks 354 through 359 is sent to the client system"}.

14. As per dependent claims 8 and 22, BOSS teaches:

The method of claim 1 further comprising storing the metadata information received by the communications service in a memory device {See BOSS, Figure 13a-c}.

15. As per dependent claims 9 and 20, BOSS teaches:

The method of claim 1 further comprising storing at least one of the data packets received by the communications service in a memory device {See BOSS, Figure 13a-c}.

16. As per dependent claims 10 and 16, BOSS teaches:

The method of claim 9 further comprising:

selecting at least one of the stored data packets responsive to the metadata information received by the communications service {See BOSS, C8:L44-46, wherein this reads over "[i]f the window in the communication packet examined belongs to a shared task, then in block 370 the window region is added to the shared region"}.

17. As per dependent claim 11, BOSS teaches:

The method of claim 10 where step (g) comprises:

(g-a) transmitting to the consumer node the selected at least one of the received data packets {See BOSS, C8:L4-29, wherein this reads over "the window in the list is marked as being shared" and "a communication packet containing the window list created in blocks 354 through 359 is sent to the client system"}; and

(g-b) transmitting to the consumer node the selected at least one of the stored data packets {See BOSS, C8:L44-46, wherein this reads over "[i]f the window in the communication packet examined belongs to a shared task, then in block 370 the window region is added to the shared region"}.

18. **As per dependent claim 12**, BOSS teaches:

The method of claim 1 further comprising storing, in a memory element, information identifying the at least one data packet transmitted to the consumer node {See BOSS, Figure 13a-c}.

19. **As per dependent claim 13**, BOSS teaches:

The method of claim 12 further comprising selecting at least one of the data packets received by the communications service responsive to the metadata information received by the communications service {See BOSS, C8:L4-29, wherein this reads over "the window in the list is marked as being shared" and "a communication packet containing the window list created in blocks 354 through 359 is sent to the client system"} and to the stored information identifying the at least one data packet transmitted to the consumer node {See BOSS, C8:L44-52, wherein this reads over "the above described process between blocks 364 and 371 is repeated until there are no more windows in the communication packet"}.

20. **As per dependent claim 17**, BOSS teaches:

The system of claim 17 wherein the source node transmits a plurality of metadata packets, each of the plurality of metadata packets representing one state of the source node local display data {See BOSS, C8:L30-43, wherein this reads over "the last window in the communication packet . . . is examined"; and "the window is examined if it belongs to a shared task"}.

Claim Rejections - 35 USC § 103

21. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

22. **Claims 3-4, 7, 19, and 21** are rejected under 35 U.S.C. 103(a) as being unpatentable over BOSS.

23. **As per dependent claim 3**, while BOSS may not expressly disclose the repeating of "steps (a) through (d) until a request is received from a consumer node for the current state of the changing data

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set," it would have been obvious to one of ordinary skill in the art at the time the invention was made to iteratively repeat steps (a) through (d) so that when state of the source node changes, data packets identifying the changes may be transmitted and received.

24. As per dependent claim 4, BOSS teaches:

The method of claim 3 wherein selecting the at least one of the received data packets responsive to the received metadata information comprises:

(e-a) selecting one of the metadata information received by the communications service {See BOSS, C8:L44-46, wherein this reads over "[i]f the window in the communication packet examined belongs to a shared task, then in block 370 the window region is added to the shared region"}; and

(e-b) selecting at least one of the data packets received by the communications service and identified by the selected metadata information {See BOSS, C8:L44-46, wherein this reads over "[i]f the window in the communication packet examined belongs to a shared task, then in block 370 the window region is added to the shared region"}.

25. As per dependent claim 7, while BOSS may not expressly disclose the method step of receiving from the source node at least one of the identified data packets in encrypted form, it would have been obvious to one of ordinary skill in the art at the time the invention was made to encrypt data packets so that said packets may be transmitted in secure form.

26. As per dependent claim 19, while BOSS may not expressly disclose that a communication service selects a first metadata packet to transmit to the first consumer node and a second metadata packet to transmit to the second consumer node, it would have been obvious to one of ordinary skill in the art at the time the invention was made that where there are more than one consumer nodes, the communication service would appropriately send each consumer node a metadata packet acknowledging the change in states of the source node since each node may having different shared tasks.

27. As per dependent claim 21, while BOSS may not expressly disclose that the memory element is a persistent storage device, it would have been obvious to one of ordinary skill in the art at the time the invention was made that a persistent storage device may be used to store transmitted data such as metadata and data packets.

Response to Arguments

28. Applicant's arguments filed 11 April 2008 have been fully considered but they are not persuasive.

a. Rejections under 35 U.S.C. 102

Applicant asserts the argument that Boss does not describe a communications service or the use of an additional communications service that is in communication with both the host system and the client system. See Amendment, page 11. The Examiner respectfully disagrees. First, it is noted that Boss indeed does disclose the use of communications services whereby communication packets are transmitted through. See Boss, Figure 3 and column 4, line 59 column 5, line 4. Secondly, while Applicant asserts "the use of an additional communications service that is in communication with both the host system and the client system," it is noted that the features upon which applicant relies are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993). Instead, it is noted that the amended claims recite a plurality of communications services, wherein the consumer node and the source node each utilize its own individual communications service.

Accordingly, the rejections under 35 U.S.C. 102 are sustained.

Conclusion

29. Any inquiry concerning this communication or earlier communications from the examiner should be directed to PAUL KIM whose telephone number is (571)272-2737. The examiner can normally be reached on M-F, 9am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Apu Mofiz can be reached on (571) 272-4080. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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